concentrations as well as 75-ml dispenser bottles of 6 and 8%. Integrated Separation Systems. Circle 144.

- **Antibodies**
  Several highly specialized antibodies for intracellular and extracellular markers are available, including monoclonal antibodies that recognize specific organelle proteins such as mannosidase II and nuclear pore complex proteins. These antibodies can be used to study the roles of proteins in the Golgi apparatus and nuclear envelope. A polyclonal antibody specific for involucrin can be used to study terminal differentiation in the upper layers of the epidermis. These antibodies can all be used in immunofluorescence studies and have very high titers. Berkeley Antibody Co. (BAbCO). Circle 145.

- **Chromatography Medium**
  HyperDiffusion® chromatography medium offers a new approach to peptide and protein 10 purification. The medium combines the high flow of a rigid, open, porous structure with the high binding capacity of a soft gel. It delivers capacities ranging from low (30 cm/hour) to very high (>1000 cm/hour) linear velocities. Based on a rigid composite matrix with hydrogen-filled pores, the medium offers rapid separations and diffusion rates that are largely independent of linear velocity. Beckman Instruments. Circle 146.

- **Literature**
  Fluorescence Imaging Applications Guide contains information and protocols for doing the most common nucleic acid and protein applications using fluorescence instead of radioactivity. The guide presents 10 applications covering specific and nonspecific DNA and protein detection assays in gels, blots, and microplates. Information on detection limits and the linear quantitative ranges for each protocol is listed, along with vendor information and handling and storage requirements for specified reagents. Molecular Dynamics. Circle 147.


  Qiagen Product Guide 1996 describes products in the following categories: plasmid DNA isolation, phage DNA isolation, DNA clean-up and gel extraction, genomic DNA and viral nucleic acid isolation, RNA isolation, automated nucleic acid preparation, protein purification and expression, and nucleic acid blotting. Qiagen. Circle 149.

Instruments and Media for Chromatography is an 88-page catalog covering low-pressure liquid chromatography, high-performance liquid chromatography (HPLC), microbore HPLC, and supercritical fluid chromatography. New products include spherical cellulose media for ion exchange, affinity, and gel filtration separations. Isco. Circle 150.

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FROSTBURG STATE UNIVERSITY
FOREST ECOLOGY

Frostburg State University (FSU) seeks a full-time tenure-track ASSISTANT or ASSOCIATE PROFESSOR in Forest Ecology to begin in August 1996, pending budgetary approval. The successful candidate will contribute to general biology program, direct under-graduate and graduate research; collaborate with faculty on conservation biology and natural resource manage-
ment projects. Possibility of half-time release from teach-
ing responsibilities to enhance research and complement existing research programs. Current areas of strength in the Department include signal transduction, lipids and biomembranes, DNA and RNA metabolism, protein turnover, physical biochem-
istry, and human genetics. Emory University is a private institution located in suburban Atlanta with a modern college campus. Applications are invited until the position is filled. More information can be obtained at our Web page, http://
www.biochem.emory.edu. Direct inquiries to: Dr. Keith D. Wilkinson, Search Committee, Department of The Department of Anatomy and Cell Biology was established in 1952. It has contributed to the training of a large number of pharcologists, and continues to provide a rigorous and stimulating educational program that prepares students for careers in medical and research fields. The Department offers graduate courses and participates in the graduate training program of the University School of Medicine. It also provides instruction in anatomy, histology, and physiology for the professional programs of the University.

The Department of Anatomy and Cell Biology was established in 1952. It has contributed to the training of a large number of pharcologists, and continues to provide a rigorous and stimulating educational program that prepares students for careers in medical and research fields. The Department offers graduate courses and participates in the graduate training program of the University School of Medicine. It also provides instruction in anatomy, histology, and physiology for the professional programs of the University.
The Neuroscience Research Institute (NRI) and the Children's Hospital of Eastern Ontario (CHEO), University of Ottawa, seek applications from basic neuroscience researchers for the TENURE-TRACK/EQUIVALENT appointment. The successful applicant will possess a strong background in molecular neuroscience. He or she will have demonstrated an independent research program applied to clinically relevant research areas broadly relating to stroke, neurodegenerative diseases, or mental illnesses. Areas of particular research interest would include: neural circuits, synaptogenesis, receptor-mediated signal transduction mechanisms, regulation of apoptosis/proliferation and cell migration/differentiation in brain, transgenic approaches to understanding brain function, and regulation of gene transcription in the brain.

A generous start-up package will be made available to the successful applicant. The NRI is a newly established institute focusing on developing innovative research approaches to address aspects of neuronal function. It is located on a thriving campus that includes basic medical science departments, the CHEO Research Institute, the newly established Ottawa General Health Research Institute, the Cancer Research Centre, and two tertiary care hospitals. Please submit curriculum vitae and a description of current and future research plans to:

Dr. A. M. Hakim
Director, Neuroscience Research Institute
481 Smyth Road
Ottawa, Ontario K1H 8M5 Canada

According to Canadian Immigration requirements, this ad is primarily addressed to Canadian citizens and landed residents of Canada.

ASSISTANT PROFESSOR PLANT PATHOLOGY
Penn State University invites applications for a 48-week, TENURE-TRACK, 80% research and 20% teaching position available July 1, 1996. The research responsibility is to develop a program in molecular genetics of plant pathogenic fungal and plantVirulent fungal pathogens and related aspects of plant disease research. Teaching responsibilities include a course in fungal or plant disease molecular genetics and directing graduate student research. The successful candidate will have a Ph.D. from a discipline relevant to molecular genetics of fungi and plant disease demonstrated research experience in fungal molecular genetics is required. Postdoctoral experience in molecular genetics of fungi and plant disease and demonstrated publication record and teaching experience are desirable. Salary is competitive. Applicants should submit a letter of application, curriculum vitae, a statement of research interests and teaching, professional philosophy, and three letters of recommendation to: Dr. John E. Ayers, Search Committee Chair, Department of Plant Pathology, Plant Research Laboratory, Box S-104, University Park, PA 16802-4507. Application Deadline: April 30, 1996 or until filled. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.

OCEANOGRAPHER
Nova Southeastern University Oceanographic Center invites applications for a full-time FACULTY position (Assistant or Associate Professor) in either of two formats: 1) 50% teaching (eight months) or 50% research (four classes) plus 50% research for 12 months in areas of oceanography or marine biological sciences. Teaching may include courses in Environmental Science, Introduction to Oceanography, History of Science, and Ecology. The successful applicant for the 12-month position will be expected to develop an externally funded research program. As much as two months per year may be provided by the University for faculty carrying out research. Applicants with established programs will be considered favorably. Applicants should submit a curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. Edward Messing, Chairman of Search Committee, Oceanographic Center, Nova Southeastern University, 3300 College Avenue, Fort Lauderdale, FL 33314. Applications will be reviewed as they arrive and positions will be filled.

ASSISTANT OR ASSOCIATE PROFESSOR MR Physics
A tenure-track or tenured position of medical physicist in the Department of Radiology at the University of Minneapoolls is available. The successful candidate will have demonstrated an independent research program in (1) either of the following areas: (a) a Ph.D. in physics or chemistry, a strong background in mathematics, and at least two years of experience in techniques of MR imaging, MR spectroscopy, and MR angiography to complement existing research in the area; or (b) two to three years experience in peer-reviewed journals. Appointment at the rank of Associate Professor requires a minimum of five years of research experience. Applications should include a statement of current and planned research interests and a publication record. In addition, the successful candidate must have demonstrated expertise in and publications in endovascular and cardiovascular interventional MR techniques, either on a full-time or an informal basis with special experience in RF coil design. The candidate should also have familiarity with Philips MR scanners and programming language, MR-compatible materials, and computer applications. Applications will be accepted through May 15, 1996. Send letters to: Dr. Robert J. Wittenberg, Director, Physics Section, Department of Radiology, University of Minnesota, 420 Delaware Street S.E., Minneapolis, MN 55455.

The University of Minnesota is an Equal Opportunity Employer/Educator, and specifically invites and encourages applications from women and minorities.

FACULTY POSITIONS IN X-RAY CRYSTALLOGRAPHY OF BIOLOGICAL MACROMOLECULES
Emory University School of Medicine, Department of Biochemistry
Applications are invited for senior and junior-level FACULTY POSITIONS in X-ray crystallography in the Department of Biochemistry, including an endowed professorship as the Georgia Research Alliance Eminent Scholar in Biological Molecular Plant Pathogens. The faculty will establish a state-of-the-art X-ray diffraction facility in new research space as part of campus-wide expansion of the Emory University campus.

The University is a private institution located in suburban Atlanta with an attractive campus comprising the Woodruff Health Sciences Center, Emory College, the law school, and other academic units. The biomedical research programs occupy >500,000 square feet of research space and generate more than $100 million per year in peer-reviewed research support. Send a letter briefly describing research accomplishments and future research plans with the names, addresses, and telephone numbers of three to four references by May 31, 1996 to: Dr. Alfred Merrill, Department of Biochemistry, Emory University Medical School, Atlanta, GA 30322. Telephone: 404-727-5978. Fax: 404-727-6554. Email: biochem@emory.edu. More information can be obtained at our Web page, http://www.biochem.emory.edu. Emory University is an Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.

The George Washington University Medical Center (GWUMC) is seeking a PROFESSOR AND CHAIR for the Department of Microbiology and Immunology. The GWUMC seeks a distinguished Ph.D. or M.D., Ph.D. scientist with an outstanding record of scientific productivity and proven ability to attract external funding in the area of molecular virology with an emphasis on AIDS or cancer. The Chair will be responsible for the expansion and integration of a program in molecular virology, microbiology, and immunology. The Chair will serve as director of the Division of Molecular Virology and Immunology and recruit additional faculty members. The candidate should be capable of leading the Department to a position of academic excellence and national prominence. The successful candidate will have demonstrated excellence in teaching at the medical, graduate, and postdoctoral levels, as well as leadership qualities and administrative skills necessary to design and implement a scientific agenda for the new department. Applications will be accepted and reviewed on an ongoing basis until the position is filled. Applicants should submit curriculum vitae, outline of scientific accomplishments, and a statement of scientific agenda. Please send references to: Dr. Peter G. St. George-Hyslop, Chair, Department of Microbiology and Immunology, GWUMC, 700 23rd St. NW, Washington, DC 20037. The GWU is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.

SCU MONTEREY BAY
TENURE-TRACK FACULTY POSITION
Institute for Earth Systems Science and Policy Studies (ESSP)

California State University (CSU) Monterey Bay seeks a tenure-track individual with interdisciplinary skills in ecological economics to fill a position in the Institute for Earth Systems Science and Policy Studies (ESSP). The ESSP program is a new research and educational program that will focus on the relationship between ecological and economic systems. Faculty in the ESSP program will be expected to interact with students and researchers concerned with the integration of ecological and economic systems. The successful candidate will be responsible for incorporating economic and ecological perspectives into their work. Specific areas of research include, but are not limited to, topics in the economics of environmental policy, economic evaluation of natural resources, environmental accounting, and the economics of renewable resources.

Applications are invited for a SENIOR STAFF position in the Geosciences Program of the Institute for Earth Systems Science and Policy Studies (ESSP) of the University of California, Santa Cruz, for an individual with interpersonal, organizational, and writing skills. The successful candidate is expected to take a leadership role in research related to the aging nervous system. The successful candidate will be one who demonstrates appropriate leadership skills, including the ability to maintain effective interactions over a range of basic science and clinical disciplines related to brain and aging. Candidates should have a record of outstanding research accomplishments as evidenced by national and international recognition, appropriate funding record, and proven ability to train graduate and postdoctoral researchers. The position includes a permanent staff appointment in the Institute’s Geosciences Program. The appropriate Department in the University of Minnesota at a level commensurate with the credentials of the successful candidate. In addition to research, participation in teaching and administration is required.

Applications consisting of a cover letter, curriculum vitae, and the names of three references prior to June 30, 1996 to: Dr. Apostolos P. Georgopoulos, Chair, GRECC Search Committee, Brain Sciences Center, UCSC (11B), One Veterans Drive, Monterey, CA 93943. Email: grecc@ucsc.edu (applicants—we are an MS Word Macintosh campus); grecc_recruit@ucsc.edu (inquiries). Position close date: May 20, 1996 filled. California State University is an Equal Opportunity/Affirmative Action and ADA Employer committed to excellence through diversity.

ASSOCIATE DIRECTOR OF RESEARCH GERIATRIC RESEARCH, EDUCATION AND CLINICAL CENTER
Veterans Affairs Medical Center
Minneapolis, Minnesota

Applications are invited for a SENIOR STAFF position in the Geriatric Research, Education and Clinical Center (GRECC) of the Department of Veterans Affairs Medical Center (DVMC). The successful candidate is expected to take a leadership role in research related to the aging nervous system. The successful candidate will be one who demonstrates appropriate leadership skills, including the ability to maintain effective interactions over a range of basic science and clinical disciplines related to brain and aging. Candidates should have a record of outstanding research accomplishments as evidenced by national and international recognition, appropriate funding record, and proven ability to train graduate and postdoctoral researchers. The position includes a permanent staff appointment in the Institute’s Geriatric Research Program. The appropriate Department in the University of Minnesota at a level commensurate with the credentials of the successful candidate. In addition to research, participation in teaching and administration is required.

Candidacy is required for a M.D. or Ph.D. degree and is invited to apply by sending a letter of interest, curriculum vitae, and the names of at least three references prior to June 30, 1996 to: Dr. Apostolos P. Georgopoulos, Chair, GRECC Search Committee, Brain Sciences Center, UCSC (11B), One Veterans Drive, Monterey, CA 93943. Email: grecc@ucsc.edu (applicants—we are an MS Word Macintosh campus); grecc_recruit@ucsc.edu (inquiries). Position close date: May 20, 1996 filled. California State University is an Equal Opportunity/Affirmative Action and ADA Employer committed to excellence through diversity.

SENIOR LEVEL POSITION
The Department of Mathematics at Yale University invites applications for a position of FULL PROFESSOR. The department is most interested in applicants whose areas of interest include (but are not limited to) some aspect of discrete mathematics, numerical methods for partial differential equations, computational physics, and related fields. The candidate should expect to assume a role of leadership in developing and directing a program of applied research at Yale.

A candidate for this position must have established an exceptional record in formulation, analysis, and implementation of numerical algorithms to scientific problems. A candidate is expected to assume a role of leadership in at least one of the areas listed above. In addition to strong commitment to research, a candidate should have a demonstrated record of teaching on undergraduate and graduate levels. Applications should be addressed to Dr. Mark S. Falk, Chair, Department of Mathematics, Yale University, P.O. Box 208283, New Haven, CT 06520-8283. Yale University is an Affirmative Action/EQUAL OPPORTUNITY EMPLOYER.
It takes world-class employees to make a world-class company.

At Abbott Laboratories, our professionals are researching, developing and marketing the health care products that will make a significant impact on generations to come. As we expand our research efforts, the Genomics Research Area of our Pharmaceutical Products Division is seeking multi-disciplinary research scientists to apply the revolutionary tools of genomics and molecular biology to drug discovery.

We are building a team of scientists in the areas of genomics, biology, and bioinformatics who will accelerate the discovery of innovative drugs. Qualified researchers will be trained in specific therapeutic areas and skilled in uncovering new biological targets through the application of bioinformatics and genomic science. Our enhanced capabilities in biology and molecular biology will be supported by expanding state-of-the-art facilities for nucleic acid and protein sequence analysis. Scientists chosen for these positions will play a critical role at the interface between genomics and the therapeutic disciplines. The ideal candidates will be team-oriented individuals with a record of accomplishments as evidenced by publications, and a background in pharmaceutical drug discovery.

Research Scientist — Molecular Immunology
You will be responsible for research focusing primarily in the areas of inflammation, allergy and autoimmunity. Ideal candidates will have a Ph.D. and 3+ years of post-doctoral experience in Molecular Immunology, and proven skills in the use of genomic information to aid in the process of target discovery and development. (Job # 96-JKK-0847)

Research Scientist — Molecular Neurobiology
You will be responsible for research in the areas of neurocytokines, signal transduction and neurodegenerative diseases. Ideal candidates will have a Ph.D. and 3+ years of post-doctoral experience in Molecular Neurobiology, and proven skills in the use of genomic information to aid in the process of target discovery and development. (Job # 96-JKK-0854)

Research Scientist — Molecular Microbiology
Ideal candidates will have a Ph.D. in Microbiology or Molecular Microbiology. Solid training and professional experience in bacterial metabolism, microbial physiology and microbial genetics is required. Experience in the use and application of emerging genetic information to microbial target identification is required. (Job # 96-JKK-0846)

Research Scientist — Molecular Metabolism
You will be responsible for research in the areas of diabetes, obesity, bone disorders and other metabolic diseases. Ideal candidates will have a Ph.D. and 3+ years of post-doctoral experience in Molecular Metabolism, and proven skills in the use of genomic information to aid in the process of target discovery and development. (Job # 96-JKK-0902)

Research Scientist — Bioinformatics and Computational Biology
Ideal candidates will have a Ph.D. in Computational Sciences with practical experience in Bioinformatics and Genomic Biology, as well as be skilled in the integration of the tools of bioinformatics and genomics with the drug discovery process. Applicants should have extensive experience in the development, adaptation and integration of computational sequence analysis methods for genomic database searching. (Job # 96-JKK-0341)

Research Associates — All Therapeutic Areas
You will be responsible for providing technical assistance in the areas of biology and molecular biology. Ideal candidates will have a Bachelor's and/or Master's degree in Biology or Molecular Biology, with several years experience in the practical application of molecular tools to the drug discovery process. Proven skills in the area of Genomic Biology within a therapeutic discipline preferred. (Job # 96-JKK-0848)

With 50,000 employees worldwide, and more than $10 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: Abbott Laboratories, Job # D583, AP6B, 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.
SCIENTIFIC DIRECTOR
NATIONAL INSTITUTE OF NURSING RESEARCH
NATIONAL INSTITUTES OF HEALTH

The National Institute of Nursing Research (NINR) is seeking applicants for the position of Scientific Director, National Institute of Nursing Research. The incumbent will direct a multi-disciplinary laboratory and clinical research program, advising the Director, NINR, on all ongoing and projected intramural research programs. The Scientific Director participates actively in the planning of the Institute’s nursing research initiatives and resource allocation and management. Responsibilities include assessing program effectiveness, and initiating or redirecting programs of basic and clinical research to achieve the goals of the NINR.

Applicants must have a Ph.D. in one of the health sciences, and M.D. or an equivalent combination of experience and training. The successful candidate must have a strong background in basic and/or clinical research and possess demonstrated competence in assuming leadership needed to achieve key national and organizational goals related to nursing science.

This position is located in Bethesda, Maryland, and is a permanent full-time Senior Executive Service (SES) or GS-15 position with a salary range of $94,800 to $115,700 (SES) or $69,300 to $90,090 (GS-15) (plus 6.04% locality pay) per annum commensurate with qualifications. Physicians may be eligible for an annual comparability allowance ranging from $5,000 to $20,000 per year. Candidate may be eligible for membership in the Senior Biomedical Research Service.

A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position.

A relocation bonus of up to 25 percent of base pay may be available to a permanent Federal employee who must relocate to accept this position.

A one-year probationary period may be required depending on prior government service.

All candidates must be U.S. citizens and must submit an Application for Federal Employment and/or curriculum vitae no later than June 3, 1996. For qualification and application information contact:

CHERRY L. EARL
NATIONAL INSTITUTE OF NURSING RESEARCH
PERSONNEL OFFICE, BUILDING 31, ROOM 5B25
31 CENTER DRIVE MSC 2178
BETHESDA, MD 20892-2178
(PHONE: 301-402-2631)

NIH is an Equal Opportunity Employer
Scientist - QC Technical Services
You will assume responsibility for the development and validation of analytical methods for proteins and peptides, as well as contribute to our analytical research and development programs. Specific accountabilities involve documenting scientific experiments; writing technical, method development and validation reports; and supervising junior scientist. To qualify, candidates must have a PhD in Analytical Chemistry, Biochemistry or equivalent and 3 years’ experience, or an MS in Chemistry, Biochemistry or related field and 5 years’ experience in pharmaceutical/biopharmaceutical analysis. Hands-on expertise in biochromatography, electrophoresis with an emphasis on protein and peptide analysis is required. Strong communication skills and knowledge of cGMPs and cGLPs are musts. (Code: JM)

Research Scientist - Protein Chemistry
This is an excellent opportunity for a creative PhD level scientist with 6 years of training in protein chemistry to assist in the discovery and development of novel therapeutic agents. Specifically, this individual will work as part of a team and should possess supervisory experience. The ideal candidate should be proficient with modern methods of protein purification and characterization, as well as possess assay set-up expertise. The ability to contribute to studies designed to elucidate the biology and mechanism of action of proteins is essential. (Code: JT)

Sr. Process Scientist — Protein Purification
This scientist will play a critical role in the development and optimization of purification methods of recombinant therapeutic proteins for use in human clinical trials and commercial production. This will involve developing preparative chromatographic and other isolation methods, supporting transfers of processes to our manufacturing group as well as applying analytical methods supporting purification development. Applicants must have a PhD in Chemistry or Biochemistry, 3+ years’ industry experience in process development protein purification and an understanding of GMPs. Strong written/verbal communication skills and computer experience are required. (Code: DP)

Analytical Chemist
You will develop and validate protein chemistry methods necessary for development projects. This will involve chromatographic and electrophoretic (SDS-PAGE, IEF, Western Blots) characterization and analysis of products at various development stages, as well as batch analysis for QC releases and stability studies. GMP compliance for all activities is required. To succeed, candidates must have a BS/BA in Chemistry, Biochemistry or related field and 3-5 years’ experience with protein chemistry and analysis by UV/Vis Spectroscopy, peptide mapping and HPLC of proteins and peptides. Expertise with SDS-PAGE and IEF gel systems, plus capillary electrophoresis is a plus. Familiarity with cGMP’s and/or cGLP’s are essential. (Code: JM)

Biophysical Protein Chemist - Formulation
Our Process Development Group has an opening for a Senior Process Scientist to lead the development of new therapeutic protein formulations. Requirements include a PhD in an appropriate specialty, publications covering some aspect of biophysical protein chemistry (e.g.; spectroscopic, thermal or hydrodynamic analytical methods), and 3-5 years’ industrial experience with protein formulation. Additional required development experience includes lyophilization and technology transfer to an aseptic filling environment operating under GMP. Experience using statistical experimental design and HPLC to study protein decomposition products preferred. (Code: DP)

Biogen offers what few companies in our industry can — Professional Challenge, Stability, Growth, and one of the strongest financial profiles in the industry. In addition, our compensation and benefits package, including equity participation, is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, this is your opportunity to join our expanding universe. Please forward your resume, indicating appropriate job code, to:

Dept. SC, Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142. FAX: (617) 679-2546

Biogen is an Equal Opportunity Employer.  
http://www.careermosaic.com/cm/biogen
Tenure-Track Position
National Institute of Environmental Health Sciences

Cell Cycle Regulation and Molecular Carcinogenesis

A position is available in the Laboratory of Environmental Carcinogenesis and Mutagenesis for an outstanding scientist to develop an independent program of basic research in the area of cell cycle control alterations during the process of carcinogenesis. Applications are invited from candidates with a strong research record in molecular cell cycle control and carcinogenesis as demonstrated by having significant impact in the field. Priority will be to applicants whose expertise includes genetic and molecular approaches to investigate the impact on cell cycle regulation in mammalian cells of exposure to environmental carcinogens. Minimum qualifications are a doctoral degree in the biomedical sciences, a minimum of three years postdoctoral experience and research publications in prestigious peer-reviewed journals. Desirable additional qualifications include demonstrated expertise in the following areas: The cell biology of neoplastic transformation; molecular consequence of proto-oncogene activation on cell cycle regulation; inactivation of tumor suppressor genes; cell cycle checkpoint mechanisms and genetic alterations of cell cycle control that predispose to cancer.

The position is available to citizens or permanent residents of the United States. Salary will be commensurate with experience and qualifications of the candidate. Applications from women and minority groups are particularly welcome.

LISA ROGERS (HNV96-7), Human Resource Management Branch, National Institute of Environmental Health Sciences, PO Box 12233, Research Triangle Park, NC 27709 (919) 541-3316

NIEHS/NIH is an Equal Opportunity Employer

Postdoctoral Scientist
Job # 9520

Ciba's Biotechnology Research Unit (RTP) is seeking a Ph.D. for a postdoctoral position in the Optical Mapping Group. The successful candidate will possess a background in Biological or Chemical Sciences with 2-3 years of molecular lab experience. The selected candidate will apply optical mapping and other molecular and genetic techniques to the study of plant genomes. Experience with large DNA-insert libraries and Unix Computer Systems helpful. Additionally, the position will be part of a collaborative research effort among industrial and academic scientists to advance the field of Optical Mapping Technology.

We offer competitive salaries and a generous benefits package which includes relocation assistance.

Resumes should be forwarded with a cover letter (which should include Job# 9520) and a list of three (3) references to: Ciba Biotechnology Research Unit, Human Resources Department, P.O. Box 12257, Research Triangle Park, NC 27709-2257. Resume deadline is April 26, 1996.

We are an Equal Opportunity Employer, m/f/d/v.

Pharmacology Chair
Tulane Medical School

The School of Medicine at Tulane University Medical Center invites applications and nominations for the position of Professor and Chair of the Department of Pharmacology. The position offers exciting opportunities to lead this highly successful department through new research initiatives in pharmacological sciences and innovative approaches to medical education. Extensive interactions are possible with other medical school basic and clinical science departments and interdisciplinary Medical Center research initiatives in cancer biology, cardiovascular medicine, infectious diseases, neuroscience, gene therapy, women's health, bioenvironmental sciences, and basic molecular and cellular biology.

Applications and nominations may be sent to: Pharmacology Search, Office of the Dean, Tulane University School of Medicine, 1430 Tulane Avenue, SL77, New Orleans, LA 70112. Applicants should submit a letter of interest accompanied by a comprehensive curriculum vitae and the names and addresses of four references. The deadline for receipt of applications is July 15, 1996.

Tulane University is an AA/EOE Employer. Women and minorities are encouraged to apply.
THE UNIVERSITY OF IOWA COLLEGE OF MEDICINE
Molecular Biology and Genetics

The University of Iowa College of Medicine seeks applicants to fill a new tenure track faculty position as part of a program expansion in molecular biology and genetics. Established scientists as well as new investigators having a Ph.D., M.D., or M.D./Ph.D. degree(s) are invited to apply. New investigators should have a minimum of two and preferably three years of postdoctoral research experience. Areas of emphasis include disease gene discovery and characterization, genetic animal models of disease, study of diseases with complex patterns of inheritance, and genetic epidemiology. Expertise in molecular techniques such as large scale genotyping, cDNA library construction, DNA sequencing, and/or other molecular techniques useful for facilitating genetic approaches to understanding of human disease is highly desirable. Applicants with expertise in the development of original methods and research designs are desired. The successful applicant will have a variety of opportunities for interdepartmental collaborations involving basic and clinical science research and will receive an attractive start-up package. Salary and faculty rank will be commensurate with experience and qualifications. The departmental affiliation for the applicant's faculty appointment will be based on the applicant's scientific research orientation.

Cellular Communication and Signal Transduction

The University of Iowa College of Medicine seeks applicants to fill a new tenure track faculty position as part of a program expansion in cellular communication and signal transduction. Established scientists as well as new investigators having a Ph.D., M.D., or M.D./Ph.D. degree(s) are invited to apply. New investigators should have a minimum of two and preferably three years of postdoctoral research experience. Areas of emphasis include cytokine receptor biology, receptor and nonreceptor tyrosine kinases, control of cellular growth and transformation, and signal transduction in developmental biology. Preference will be given to investigators with expertise using combinations of molecular and biochemical technology to pursue these areas of investigation. Applicants with expertise in the development of original methods and research designs are desired. The successful applicant will have a variety of opportunities for interdepartmental collaborations involving basic and clinical science research and will receive an attractive start-up package. Salary and faculty rank will be commensurate with experience and qualifications. The departmental affiliation for the applicant's faculty appointment will be based on the applicant's scientific research orientation.

Candidates should send a statement of research interests, a curriculum vitae, three recent publications, and the names of three individuals who can be contacted as references to:

Allyn L. Mark, M.D.
Associate Dean for Research
College of Medicine
The University of Iowa
220 CMAB
Iowa City, IA 52242-1101

The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.
ASSOCIATE DIRECTOR

The National Research Council (NRC) is seeking an Associate Director for its Board on Sustainable Development (BSD). Will also serve as the Study Director for studies performed under BSD. The recently formed Board has responsibility for a broad range of studies and activities relating to environment, natural resources, and sustainable development of natural resources and national and international economies. In addition, the Board oversees the activities of number of NRC units relating to the US Global Change Research Program (USGCRP). The incumbent will report to the Director, NRC Board on Sustainable Development (BSD) and will share responsibility for supporting the work of the Board and its standing committees, with particular emphasis on global change research studies and activities. Duties include writing, reviewing and editing background papers, meeting documents, and formal NRC reports; organizing and supporting meetings and study sessions; maintaining cognizance of key issues and identifying opportunities for new studies; conducting and reviewing scientific assessments; and assisting in maintaining staff liaison with the federal Committee on Environment and Natural Resources with specific responsibility for global change research and observing system issues. Requirements include a Ph.D. or equivalent, preferably in an environmental earth science, life, or social science related field; an exceptional breadth of substantive knowledge in environmental science and policy; at least four to five years of senior experience in environmental science and policy issues; and demonstrated ability to communicate effectively with senior officials in the executive and legislative branches. Applicants should send curriculum vitae and references to: Policy Division, NRC (NAS 242-LM), 2101 Constitution Avenue, NW, Washington, DC 20418. EOE.

Research Manager,
Molecular Biologist

NeoRx Corporation, a Seattle-based, publicly held biotechnology company develops targeted biopharmaceuticals to treat cancer and cardiovascular disease.

We are currently seeking a creative, experienced scientist to lead and build our molecular biology research team. This position requires a Ph.d. in molecular biology with relevant work experience. The successful candidate must have a record of accomplishment in developing independently initiating, leading and conducting product-oriented research activities; DNA sequencing, hybridization, library construction, and analysis of recombinant vectors; gene cloning and expression techniques in both prokaryotic and eukaryotic systems; construction of novel vectors for eukaryotic systems; scale-up and process development experience; an established publication record, excellent communication skills, and successful project management experience are essential; and designing and leading research tasks and working with professional multi-disciplinary teams on a broad range of programs.

Interested candidates are invited to forward their resume with a cover letter, in strict confidence, to: Denise Carlson, NeoRx Corporation, 410 West Harrison Street, Seattle, WA 98119; fax: (206) 284-7112; e-mail: dcarlson@neorx.com
NeoRx is an equal opportunity employer.

United States Surgical Corporation, a leading innovator in the design and manufacture of surgical devices, is expanding its Biotechnology staff. You can be part of a dynamic team of scientists investigating a new generation of wound healing products for soft and hard tissue. In addition, USSC had entered into agreement with Alexion Pharmaceuticals, Inc. regarding Alexion's development of therapeutic for organ transplantation. Our state-of-the-art research facility is located in North Haven, CT; just 10 minutes from Yale University.

BIOCHEMISTRY POSTDOCTORAL SCIENTIST

An immediate position is available for a creative and motivated scientist. Requires a recent Ph.D. with a strong background in Biochemistry, Molecular Biology, Cell Biology or related field. Experience in recombinant protein expression, immunosassays, tissue culture, and construction and screening of cDNA libraries is desirable.

BIOCHEMISTRY RESEARCH TECHNICIAN

Requires a B.S. or M.S. in Biochemistry, Molecular Biology or a related field. Knowledge of protein, DNA, and RNA manipulations is essential. Knowledge of large scale fermentation a plus.

We offer a competitive salary and an excellent benefits package. For immediate consideration, send your resume, to: ANDREA DelVECCHIO, HUMAN RESOURCES, UNITED STATES SURGICAL CORPORATION, 195 McDermott Road, NORTH HAVEN, CT 06473. We are an equal opportunity employer M/F/D/V.
OREGON HEALTH SCIENCES UNIVERSITY
Director, Transgenics Service Lab

Oregon Health Sciences University invites applications for the position of DIRECTOR of a newly established Transgenics Service Lab partially funded by an award from the Howard Hughes Medical Institute. Candidates must possess an M.D., Ph.D., D.V.M. or equivalent doctoral degree and have considerable experience in the generation of transgenic mice by both pronuclear injections and blastocyst injections/morulae aggregation of recombinant embryonic stem cells. The director will manage the lab and breeding colonies and provide transgenic mice and homologous recombination in ES cells on a fee-for-service basis to investigators throughout the University. The successful candidate may hold a primary academic appointment in the Department of Animal Care and a secondary appointment in a basic science department depending on qualifications and experience. The position is available immediately and the successful candidate should be prepared to assume responsibility by the summer of 1996. The closing date for applications is May 10, 1996. Please submit a letter of application, curriculum vitae, and the names and addresses of three references to:

Transgenic Search Committee
Dept. of Biochemistry & Molecular Biology, L224
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road
Portland, OR 97201-3098

OHSU is an Affirmative Action/Equal Opportunity Employer

HUMAN GENETICS
FACULTY POSITIONS

THE UNIVERSITY OF CHICAGO

A major expansion in Human Genetics has been initiated to develop an outstanding program in Clinical Genetics, Molecular Diagnostics, and human genetics research. A number of new faculty positions are available including:

CLINICAL DIRECTOR
A senior faculty appointment with responsibilities for developing and directing the genetics activities of the medical school as well as the residency and fellowship training program in genetics. Resources available for the Clinical Director to recruit one additional full-time clinical faculty member. Board certification in Clinical Genetics and significant experience and scholarly activity in any area of clinical genetics is required.

MOLECULAR DIAGNOSTIC
LABORATORY DIRECTOR
Faculty appointment with responsibility for directing and expanding the molecular diagnostic activities of the program. Must be Board certified or Board eligible in Clinical Molecular Genetics with a strong commitment to molecular diagnostics, diagnostic technology development, and collaborative research. Send letter of interest and CV to: Human Genetics Search Committee, Attn: Dr. Carole Ober, Department of Obstetrics & Gynecology, University of Chicago, 5841 S. Maryland Ave., MC 2050, Chicago, IL 60637. An Affirmative Action/Equal Opportunity Employer

Assistant Professor
Chemistry & Biochemistry
The University of Delaware invites applications for a tenure-track position at the rank of assistant professor for which budgetary approval is pending in the Department of Chemistry and Biochemistry. Appointment at a higher level will be possible for exceptionally well-qualified candidates. Applicants should have a Ph.D. in chemistry or a related discipline, a strong academic record and an excellent record of research accomplishment. The successful candidate will be expected to conduct an active and innovative research program in any area of chemistry or biochemistry and to teach courses at the undergraduate and graduate level in one of the following areas: analytical chemistry, biochemistry or physical chemistry. Candidates with interdisciplinary research interests and with research interest complementary to existing research strengths in our department are especially encouraged to apply. Applicants should send a curriculum vitae, an outline of a proposed research program and their teaching interests and three letters of recommendation to Professor Dennis Evans, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716. Applications from women and underrepresented minorities are particularly encouraged. The closing date for receipt of applications is May 15, 1996. The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

Immunology Faculty Positions
The Department of Molecular Microbiology and Immunology, University of Missouri, Columbia, seeks to fill two full-time tenure-track faculty positions in Immunology. Candidates will be expected to develop a vigorous, externally funded research program, direct Ph.D. students and participate in teaching graduate and/or medical students.

1) Assistant Professor: Candidates should have a Ph.D. or equivalent degree with a minimum 3 years of relevant postdoctoral experience, significant publications and evidence of potential for a sustained commitment to high-quality research.

2) Associate Professor: Candidates should have demonstrated potential for maintaining an active, independent research program in Immunology as evidenced by quality publications and external funding. This individual will also serve as director of the Cell and Immunobiology Core Facility, part of the University of Missouri Molecular Biology Program, which provides tissue culture reagents, hybridoma production and flow cytometry to investigators.

Salary for both positions is competitive and commensurate with experience. Interested candidates should submit a curriculum vitae, statement of research interests and goals and the names, addresses and telephone numbers of at least three references. Dr. Helen B. Mullen, Immunology Search Committee, Department of Molecular Microbiology and Immunology, DC 385.00, University of Missouri-Columbia, Columbia, MO 65212. Noncitizens please include visa status. Screening of applications will start 15 May, 1996 and will continue until the positions are filled. The University of Missouri is an affirmative action-equal opportunity employer and encourages applications from females and minorities.

Discovery, Innovation, Opportunity... at SEARLE
As a worldwide leader in the pharmaceutical industry, SEARLE has set an innovative course in the research and development of new drugs.

Research Scientist
G.D. Searle's Cardiovascular Diseases Research Department, located in St. Louis, Missouri, is seeking a Scientist to support experiments aimed at discovering novel therapeutics for the treatment of diabetes mellitus, specifically non insulin dependent diabetes.

Responsibilities include animal handling, tissue dissection and processing, enzyme and metabolite assays, electrophoresis and Western blotting, data analysis, record keeping, and laboratory maintenance.

Requirements include M.S. in Biological Sciences and experience in problem solving and experimental design. The successful candidate will be highly self-motivated, independent, and possess an interest in physiology ranging from the organismal to molecular level. The ability to work with other scientists in a multidisciplinary environment is essential. Other desirable qualifications include experience working with isolated or perfused organs or cultured cells.

G.D. Searle is a subsidiary of Monsanto Company. Interested candidates should send resume to: SEARLE R & D, 700 Chesterfield Village Parkway, Mail Zone BB3B (EAC), St. Louis, MO 63198. Monsanto is an equal opportunity employer. M/F/D/V.
MULTIPLE SCHLOROSIS NEUROLOGIST/NEUROIMMUNOLOGIST

A NEUROLOGIST or NEUROIMMUNOLOGIST with expertise in basic science research oriented to Multiple Sclerosis is sought at the St. Michael's Hospital in Toronto. This research will be integrated within Multiple Sclerosis Program. The successful candidate will be expected to develop her or his research interests as well as to participate in the educational aspects of the Multiple Sclerosis Program. Academic appointment in the Division of Neurology, University of Toronto, and salary will be commensurate with training and experience.

Send letter of application to:
Dr. Paul W. O'Connor, M.D., M.Sc., FRCP
Chief, Division of Neurology
St. Michael's Hospital
University of Toronto
30 Bond Street
Toronto, Ontario
MSB 1W8 Canada
Telephone: 416-864-5830
FAX: 416-864-5378

In accordance with its employment equity policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal persons, and persons with disabilities. In accordance with the Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

EVALUATORY GENETICS (Rank Open)

We are searching to fill TWO POSITIONS, one senior and one junior, in evaluatory genetics; theoretical, empirical, and/or practical. Both positions are for candidates whose research complements the interests of our current faculty, including the areas of human, plant or microbial population genetics, or evaluatory quantitative genetics. Interested persons should submit their curriculum vitae, relevant publications, and the names of three references to: Genetics Search Committee, Department of Ecology and Evolution, University of Chicago, 1101 East 57th Street, Chicago, IL 60637. The deadline for receipt of applications is July 30, 1996. We anticipate interviewing candidates in the fall of 1996 and the positions beginning as early as September 1, 1997.

SCHOOL OF BIOMEDICAL AND HEALTH INFORMATION SCIENCES (SBHS)
University of Illinois at Chicago
Facility Position

SBHS is seeking a TENURE-TRACK FACULTY member (nine-month appointment) to participate in teaching and research programs in this evolving discipline. Candidates must have a strong commitment to research and education as well as evidence of external funding. Senior level experience with computer based health information systems preferred.

Applications should submit curriculum vitae with names and references to:
Walter B. Panko, Director
UIC, CAHP, SBHS
1919 West Taylor Street (m/c 530)
Chicago, IL 60612-7249
The University of Illinois is an Equal Employment Opportunity/ Affirmative Action Employer.

FACULTY POSITIONS
Tenure-Track Immunology
Tenure-Track Virology

The Department of Pathobiological Sciences, School of Veterinary Medicine and University of Wisconsin-Madison, is seeking applicants for TENURE-TRACK faculty positions, one in Immunology and the other in Virology. The positions require individuals with a strong commitment to developing a nationally recognized research program, to training graduate students, and to participating in the professional degree teaching program of the department. Salary and rank are commensurate with experience. Application deadline is May 15, 1996. Send a letter of application, curriculum vitae, and names of at least three references to: Dr. Ronald D. Schultz, Professor and Head, Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, 2015 Linden Drive West, Madison, WI 53706. Telephone: 608-263-9888. The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer.

Marquette University Biology Department invites applications for a tenure-track ASSISTANT PROFESSOR to teach a one-semester introductory biology course and supervise undergraduate research. (NOAA). Marquette University, Department of Biological Sciences, 1300 W. Box 1881, Milwaukee, WI 53201-1881. Review of applications begins June 1, 1996, and will continue until the position is filled. The position is available fall 1996. Marquette is an Equal Employment Opportunity/Affirmative Action Employer.

STAFF ASSOCIATE
Department of Medicine, Columbia University

Needed for studies involving tissue culture relevant to lipid metabolism and cell interactions. Candidate should have at least 1-2 years postdoctoral experience in research program. For further details contact: Dr. Walter Fredricks, Marquette University, Department of Biology, WLS 154, Box 1881, Milwaukee, WI 53201-1881. Review of applications begins June 1, 1996, and will continue until the position is filled. The position is available fall 1996.

BIOLOGIST
Community/Behavioral Ecologist

ASSISTANT PROFESSOR, tenure-track position, in community or behavioral ecology of terrestrial or freshwater animals. Mammalogy/herpetology emphasis preferred. Ph.D. required. Strong interest in undergraduate research required. Must be able to teach field oriented classes and incorporate local environment into undergraduate teaching and research. Will be expected to teach introductory biology as well as upper level lectures and lab in area of specialty. Undergraduate teaching experience preferred. Position is available to begin August 15, 1996. Send a letter of reference to: Dr. Colleen A. Lohr, Chair, Department of Biology, Converse College, 73 Reid St., Spartanburg, SC 29303-29526. Converse College is an Equal Opportunity/ Affirmative Action Employer.

POPULATION GENETICIST

The Division of Biological Sciences at the University of Missouri-Columbia is seeking a tenure-track faculty position as an ASSOCIATE PROFESSOR for a population geneticist with a strong background in evolutionary theory. The ideal candidate will employ theoretical or molecular techniques in the study of natural or experimental populations with an emphasis on the mechanisms of evolutionary change. Opportunities for collaboration abound: the UMC has strong interdisciplinary programs in genetics and molecular biology, and the Division has major research programs in the evolution of behavior and plant population biology. A highly competitive salary, excellence in teaching, start-up money, molecular biology, bioinformatic, and research laboratories, and an active graduate program provide an extremely supportive environment. Candidates should have published in an internationally recognized, funded research journal, have a record of research in a field of the highest quality teaching at the undergraduate and graduate levels. Send curriculum vitae, reprints of publications, statement of teaching and research interests, and three letters of reference to: Dr. John David Division of Biological Sciences University of Missouri-Columbia Columbia, MO 65211 Applications should be received by May 24, 1996 to receive full consideration. UMC is an Equal Opportunity/Affirmative Action Equal Access Institution. We are firmly committed to fostering ethnic and racial diversity on our faculty and strongly encourage applications from minorities and women.

POPULATION DYNAMICIST

The Population Dynamics Branch of the National Oceanic and Atmospheric Administration (NOAA) North Pacific Fisheries Science Center, Woods Hole, Massachusetts, seeks population dynamicists/stock assessment scientists to conduct research on the effects of exploitation and environmental factors on the population dynamics of groundfish species. Incumbents should have strong analytic skills as applied to natural resources problems. The Branch is a recognized center of excellence in marine fishery populations modeling, analysis, and predictive assessment, and maintains extensive historical data in a UNIX relational computing environment. Closing date is May 17, 1996.


POSTDOCTORAL FELLOWSHIPS

Two POSTDOCTORAL FELLOWSHIPS are available to support a multidisciplinary research program focusing on structure-transport relationships and mechanisms of transport of drug molecules across intestinal epithelia. Candidates for one of the fellowships should have strong strengths in cell biology, in cell physiology and/or in cell biology; expertise in molecular biology is preferred. Candidates for the second fellowship should have a strong background in organic chemistry with experience in analytical/bioanalytical techniques and spectroscopy. Expertise in mass spectrometry is preferable. Send curriculum vitae, a brief description of research interests, and names of three references to: Dhiren M. Thakker, School of Pharmacy, Beard Hall, CB 7360, The University of North Carolina, Chapel Hill, NC 27599. Fax: 919-996-0197.

POSTDOCTORAL POSITION available to study primary brain tumor and the regulation of proteins that mediate tumor invasion and motility. Cell culture and transplantation systems will be used to identify and characterize factors involved in tumor invasion. Applicants should have experience in molecular biological and/or cell culture techniques. Send curriculum vitae, statement of interest, and three letters of recommendation to: Dr. Susan Hockfeld, Section of Neurobiology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. Email: Susan_Hockfeld@Quickmail.Yale.edu.

INDIANA UNIVERSITY

POSTDOCTORAL POSITIONS are available to study the control mechanisms of cytokine gene expression and signal transduction. Candidates with background in molecular biology or biochemistry should send curriculum vitae and addresses of three references to: Dr. Yu Chung Yang, Walther Oncology Center, Indiana University School of Medicine, 1501 West Walnut Street, Indianapolis, IN 46202. Telephone: 317-274-7512; Fax: 317-274-7592.

POSTDOCTORAL FELLOW Applications are invited for a postdoctoral fellowship in programmed cell death. Candidates must have a Ph.D. or M.D. degree in molecular biology, biochemistry, or some aspect of protein and protein analysis. Experience in transgenic mouse technology would be helpful. Studies will examine the genetic regulation of apoptosis in normal and malignant tissues. The fellowship is available to begin September 1, 1996. Send references to: Mike Clarke, M.D., University of Michigan Medical School, SMRB II, Room C570A, 1150 W Medical Center Dr., Ann Arbor, MI 48109-0668. Telephone: 313-763-4226. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION to study opiate receptors, signaling mechanisms, and immunomodulation. Monoclonal antibody, DNA sequence, vector construction, and in situ hybridization is essential. Send curriculum vitae and three letters of recommendation to: Dr. Jeanne Parrot, Department of Pathobiological Sciences, School of Veterinary Medicine and University of Wisconsin-Madison, 2015 Linden Drive West, Madison, WI 53706. Telephone: 608-263-9888. The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer.

APPLICATION DEADLINE: May 15, 1996.
DISCOVER SUGEN:
A LEADER IN SIGNAL TRANSDUCTION RESEARCH

SUGEN, Inc. is a dynamic biopharmaceutical company focused on the discovery and development of drugs for the treatment of cancer and diabetes. We are currently staffing Science professionals at various levels to contribute to our innovative research programs at our San Francisco Bay Area offices.

IMMUNOLOGY GROUP LEADER
This group will focus on immunosuppression and/or inflammation. The position requires a PhD and several years of experience in immunological research. Experience in signal transduction pathways essential. (Dept. IM)

PROTEIN TYROSINE PHOSPHATASES GROUP LEADER
You will be prepared with a PhD as well as 2-3 years of postdoctoral experience in the area of protein tyrosine phosphatases. You will join a group studying the regulation and function of this diverse group of enzymes, particularly in regard to their involvement in clinical disease. (Dept. PTP)

CELL BIOLOGY ASSOCIATE SCIENTIST
Candidates should have a recent PhD/MS in Molecular biology/genetics/biochemistry or equivalent and have 1-4 years of experience in project-oriented research in an industrial environment. This individual should have strong DNA manipulation and vector construction skills to be part of a research team devoted to the engineering of cell lines which measure receptor-proximal biological events to aid in the development of novel screening assays. Experience in protein expression in eukaryotic cells is essential. Experience with protein phosphates or kinases is desirable. (Dept. CB)

To reply to one of the positions above, please send resume, noting Dept. Code, to: SUGEN, Inc., Attn: HR, 515 Galveston Drive, Redwood City, CA 94063. Competitive salary and benefits, including stock options, support these positions. Equal Opportunity Employer.

SUGEN, Inc.

CytoTherapeutics, Inc., is a leader in the development of proprietary products and technology designed to deliver therapeutic substances to the central nervous system (CNS). The Company's CNS-focused technology is designed to provide controlled, site-specific and safe delivery of a variety of novel therapeutic substances across the blood-brain barrier, thereby overcoming a fundamental obstacle in the effective treatment of CNS diseases. The Company is currently developing products for the treatment of chronic pain, ALS, Parkinson's disease and Alzheimer's disease, with additional research efforts directed to several other CNS disorders.

Associate Director Biological Process Development

This individual will be responsible for managing the design and scale-up of processes and equipment from pilot scale through manufacturing scale for CereBrite and other CRIB programs; managing the development, implementation and maintenance of process methods and equipment for the production of encapsulated cell therapy devices; planning and implementing the development of new manufacturing processes; and establishing operating equipment specifications. You will also oversee process validation studies which define critical operating control parameters, edge of failure and proven acceptable operating ranges. Qualifications include a Ph.D. with 3-5 years' minimum experience in Biological Sciences or Biochemistry Engineering, cell culture and bioprocess development. Fluency in GMPs, cell/gene therapy and tissue engineering issues is necessary as is strong organizational and managerial skills.

Manager/Scientist Device Biology Group

The Manager of the Device Biology group plays a pivotal developmental role in the process of bringing laboratory concepts to manufacturable entities. You will be responsible for investigating encapsulated device prototypes as they interact with the local tissue environment within the central nervous system. Developmental activities will focus on cell-device and device-host interfaces and exploring in vitro methods for predictive testing of new device concepts. The position requires an individual with a strong background in neurobiology, neuroimmunology or a related field. Qualifications include a Ph.D. with 2 to 4 years' post-doctoral experience and 3-5 years' experience in a GMP/GMP environment. In addition, the position requires a record of excellent managerial skills, and strong written and oral communication skills.

CytoTherapeutics

Scientist Imaging Laboratory Microscopy

Wyeth-Ayerst Research, a division of American Home Products Corporation, has a key position available for a scientist to operate our Imaging Laboratory in support of experimental pathology activities within the Pathology Department of Drug Safety in Chazy, New York. The incumbent will be responsible for providing scientific expertise for the design and completion of safety studies requiring electron, confocal, and imaging microscopy, and will also provide transmission and scanning electron microscopy, confocal microscopy, and image analysis services according to Good Laboratory Practice Regulations. This includes interpreting data and writing reports for studies using the Imaging Laboratory. A Ph.D. is required with a focus in morphology, anatomy, or pathology desirable, and a minimum of 5 years of experience using electron, confocal or imaging microscopy in an academic or industrial environment. Experience managing projects and/or project teams which completed imaging projects is preferred. Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements to: Wyeth-Ayerst Research, Human Resources Dept., Position #0PSCI-1888, P.O. Box 7886, Philadelphia, PA 19101-7886, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854, e-mail: jobs@RAMAIL1.wyeth.com (ASCII format only, attachments, subject: resume). Principals Only. Equal Opportunity Employer, M/F/D/V.

Leading The Way for a Healthier World
POSTDOCTORAL RESEARCH ASSOCIATE

A position is available immediately for recent Ph.D.'s with suitable skills in cellular immunology and experience in T-cell cloning and epitope mapping. Our laboratory is committed to both basic and clinical research in autoimmune and allergic diseases, especially multiple sclerosis and its animal models, giving a lot of potential for professional growth. We offer competitive salaries and excellent benefits. Send resume, research interests, and names of three references to: Dr. E. Mohtarian, Professor of Micro/Immunology and Medicine at SUNY, Health Science Center and Maimonides Medical Center, 4802 Tenth Avenue, Brooklyn, NY 11219. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the role of novel helix-loop-helix transcription factor in cell-specific gene expression in the murine autoimmune disease and in molecular/cell biology preferred. Experience with DNA-protein interactions or oligonucleotide library screening desirable. Send curriculum vitae and three references to: Dr. Lynn Rutkowski, Department of Neurology, 514 Abramson Research Center, Children's Hospital, University of Pennsylvania, Philadelphia, PA 19104-4318. Email: rutkowsk@email.chop.edu.

HEAD OF DATA MANAGEMENT
Cancer Clinical Trials

The Eastern Cooperative Oncology Group (ECOG) is a national multicenter cooperative group involved in cancer clinical trials. The ECOG Coordinating Center is looking for a HEAD of Data Management to supervise data management staff involved in the quality control and computerization of submitted data. Applicants should have several years of experience in managing data for clinical trials, a good understanding of the role of computers in this process, excellent written and oral communication skills, and experience in supervising staff. For additional details contact:

ECOG Coordinating Center
Frontier Science
303 Boylston Street
Brookline, MA 02146-7648
Telephone: (617) 632-2971
FAX: 617 632-5414

Closing date for applications is June 1, 1996

For advertising information: In Europe, phone +44 (0) 1223 302067, or fax +44 (0) 1223 576208

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SCIENCE CVERS THE WORLD
ANTIBODY ENGINEERING
Molecular Biologist/Immunologist

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, is seeking a Molecular Biologist/Immunologist to join its Antibody Engineering Group in the Department of Macromolecular Sciences.

As part of a multidisciplinary team of scientists that includes molecular biologists, protein engineers and structural biologists, the selected candidate will be expected to initiate a viable research program in the area of protein engineering in collaboration with other scientists. The candidate will work primarily on the humanization of antibodies and also contribute to engineering of other proteins with potential therapeutic value.

The ideal candidate will have a PhD in a relevant discipline with at least two years' postdoctoral experience, or an MS with at least six years' proven creative accomplishments in a successful biopharmaceutical company. Applications from more senior candidates are also welcomed.

The Department of Macromolecular Sciences is a multidisciplinary department that includes protein design, engineering, characterization and crystallography. Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please send your CV and names of three references to: SmithKline Beecham Pharmaceuticals, Job Code H8-0118, PO. Box 2645, Bala Cynwyd, PA 19004. We are an Equal Opportunity Employer, M/F/D/V.

SB
SmithKline Beecham Pharmaceuticals
Challenging the natural limits.

HUMAN GENE THERAPY RESEARCH INSTITUTE
An Affiliate of Iowa Health System
Administrative Director

Human Gene Therapy Research Institute (HGTRI), an affiliate of Iowa Health System, has an immediate full-time Administrative Director position available. The qualified individual will be responsible for day-to-day operations including personnel, purchasing, financial and budget management, collaborative agreements, quality assurance administrative policies, and support services. Coordinates fund raising activities and marketing and awareness programs. Advises staff and obtains external consultation for regulatory and quality management.

Requires a Bachelor's degree, MS or MBA preferred. Must possess at least 5 years of management experience, with two years of science related management experience desired. Excellent interpersonal skills a must. Previous physician/research scientist relation experience preferred. Experience in FDA and USDA regulatory affairs highly desirable. Must have working knowledge of Macintosh and DOS systems, database, word-processing and spreadsheet. Must be able to read, write, and speak English fluently.

Iowa Health System offers a competitive salary and comprehensive benefits package to include health insurance options with dental/vision/prescription, PTO, tuition assistance, day care and much more. Please apply to:

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Des Moines, IA 50309
(800) 843-4522 or (515) 241-8114
EOE/AA/M/F/D/V

Telecommunications:
Field for the 1997 Australia Prize

The Australia Prize is a prestigious international prize for outstanding achievement in selected areas of science and technology which promote human welfare. The Prize, which consists of $A300,000 and an inscribed medal, was instituted by the Australian Government in 1989.

The 1997 Australia Prize will be awarded in the field of Telecommunications. This field includes both the services offered by the worldwide networks which provide voice telephony facilities, and the technology used to construct and support it. This includes – but is not limited to – transmission systems, switching systems, access techniques, network management software, fibre optics, broadband technology, wireless technology, microwave technology, cellular technology, frequency modulation, packet switching, satellite technology and signal processing techniques.

Nominations for the 1997 Australia Prize close on 31 July 1996. Nomination information on the Prize is available from the Australia Prize Secretariat at the following address:

Australia Prize – GPO Box 9839, Canberra, ACT 2601, Australia. Fax: 61-6-276 2002.
Email: ausprise@dist.gov.au.

The 1996 Australia Prize

The 1996 Australia Prize was recently awarded to four creative scientists for their work in pharmaceutical design.

A giant in the world of pharmaceutical design, Belgium’s Dr Paul Janssen, Chairman of Janssen Research Foundation shared the 1996 Australia Prize with three flu-busting Australians: Professor Mark von Itzstein of the Victorian College of Pharmacy; Dr Peter Colman, Chief of the CSIRO’s Division of Biomolecular Engineering; and Dr Graeme Laver of the John Curtin School of Medical Research.

Between them, the four 1996 Australia Prize winners have made an enormous contribution to human welfare.
Showcase Your Scientific Career Opportunities
On-line for Two Months

Regulatory Affairs Forum

Beginning on May 17, the topic of Scientists as Regulatory Affairs Specialists will be discussed in a two-month interactive career forum on SCIENCE’s Next Wave, a new on-line publication. During that time, your organization’s logo will appear on the first page of this forum and will be linked to a listing of your scientific career opportunities or your organization’s homepage. Because this is on-line, you will have the flexibility to change the career opportunities posted throughout the two-month period. Only SCIENCE brings you this opportunity to make information about careers at your organization accessible to the thousands of scientists who visit SCIENCE’s World Wide Web site every day.

SCIENCE next wave
http://sci.aaas.org/nextwave

For more information contact Janis Crowley • Phone: (202) 326-6532 • Fax: (202) 682-0816
POSTDOCTORAL RESEARCH ASSOCIATE
Environmental Microbiology

Studying pollution control and bioremediation systems using molecular tools. Experience with molecular techniques, especially PCR, RT-PCR, and desirable knowledge of pollution control systems and analytical techniques also helpful. Available July 1, 1996. Send curriculum vitae and names of three references to: Dr. Charles Kulp, Chairman, Center for Bioengineering and Pollution Control, 152A Fitzpatrick Hall, University of Notre Dame, Notre Dame, IN 46556. Fax: 219-631-8599. E-mail: biology.church@nd.edu. The University of Notre Dame is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Molecular Reproductive Physiology

A POSTDOCTORAL POSITION available for an outstanding Ph.D. to study steroid receptor gene regulation and function in the mammalian ovary using molecular biological approaches. A desirable candidate should be familiar with both reproductive physiology and/or molecular biology. Send a curriculum vitae along with the names of three references to: Dr. Ok-Kyong Park-Sarge, Department of Physiology, College of Medicine, University of Kentucky, Lexington, KY 40536-0084. Email: okp@seqanai.iu.edu.

TUFTS MEDICAL SCHOOL
Neuroscience

POSTDOCTORAL position: Available immediately to work in information processing in the olfactory system using molecular biological and behavioral approaches. Molecular biological experience required. Please send curriculum vitae and letters from three references to: John S. Kauer, Ph.D., Department of Neuroscience, Tufts Medical Center, 132 Harrison Avenue, Boston, MA 02111. FAX: 617-636-0476. Tufts University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available immediately, with NIH funding, to study structure/activity relationships of salivary proteins when adsorbed to biological membranes. A Ph.D. in Biochemistry/Renal Physiology, or B.S. with experience in protein separation and characterization methods. Send, FAX, or Email curriculum vitae and three references to: Dr. James Nickell, Department of Biological Science, University of California San Francisco, Box 0758, 70 Parnassus Avenue, San Francisco, CA 94143-0758. Email: jn@itsa.ucsf.edu. FAX: 415-476-0858.

POSTDOCTORAL POSITIONS available to study genes that determine the yeast replicative life span, their human homologs, and age-regulatory processes, with the key elements (Genetics, 91:35, 1993; J. Biol. Chem., 269:15451, 1994; J. Biol. Chem., 269:18638, 1994). Experience in molecular techniques essential and in yeast genetics helpful. Send curriculum vitae, letter of application and telephone and FAX numbers of three references to: Dr. S. Michał Jazwinski, Department of Biochemistry and Molecular Biology, Regional Medical Center, 1901 Perdido Street, New Orleans, LA 70112. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
Two positions in Plant Biochemistry/Molecular Biology. One will study the biochemistry and cell biology of plant lipoygenases in generating signaling molecules and in nitrogen storage. The second will examine the biochemical mechanism of NADPH uptake in plants. Knowledge of PCR mutagenesis, yeast genetics, structural biochemistry, and transport kinetics required. Send a curriculum vitae, letter of interest, and statement of research interests, and arrange for three references to be sent to: Dr. Howard Grimes, Department of Genetics and Cell Biology, Washington State University, Pullman, WA 99164-4002. Email: hgrimes@wsu.edu. Equal Opportunity Employment/Affirmative Action/ADA Employer.

POSTDOCTORAL POSITIONS available immediately to study prokaryotic glycosyltransferases at the Sloan Kettering Institute. Training in carbohydrate synthesis, membrane proteins, mammalian enzymology, molecular biology, and/or antibody selection is particularly appropriate. Interested candidates should send curriculum vitae and three references to: Dr. Jon S. Thorson (Box 428), Department of Bioinorganic Chemistry, Molecular Pharmacology and Therapeutics Program, Sloan Kettering Institute, 1275 York Avenue, New York, NY 10021.
Wanted: Committed, ambitious scientist. Must be a team player with a vision for the future. M.D./Ph.D., Ph.D., M.S. or B.S. degree necessary.

Does this describe you?
If it does, then plan to attend the bioSCIENCE Career Fairs sponsored by SCIENCE. The bioSCIENCE Career Fairs offer the perfect opportunity for scientific professionals to meet in person with representatives from top biotechnology and pharmaceutical companies, universities, governmental agencies and institutions.

EDITORIAL SEMINAR: On the first day of the event from 11:00 - 11:30, a SCIENCE editor will conduct a seminar on "How to get a research paper published in SCIENCE."

1996 bioSCIENCE Career Fairs
May 3: 11am - 4pm; May 3 Seminar: 11 - 11:30am.
May 4: 12 noon - 4pm.

Just added! Careers in Biomedical Research: Join leaders from both industry and academia for a panel discussion sponsored by the Biomedical Association of Stanford Students on May 3, 12 - 1:30 p.m. at the Fairchild Auditorium. The panel discussion focuses on careers in biomedical research.

La Jolla, CA at The Scripps Research Institute, October 4-5.

bioSCIENCE CAREER FAIRS

For more information please call (202) 326-7018.

bioSCIENCE Career Fair Information On-line: http://www.aaas.org
(Choose SCIENCE Classified Advertising from the menu)
National Center for Human Genome Research and National Center for Biotechnology Information
National Library of Medicine
National Institutes of Health
Public Health Service
Computational Biology/Genome Informatics Fellowship Position

There is an opening for a joint appointment in the NIH Intramural Programs of the National Center for Human Genome Research (in the Laboratory of Cancer Genetics) and the National Center for Biotechnology Information (in the Computational Biology Branch) for a postdoctoral scientist interested in mathematical and statistical analysis in molecular biology, biological database design and analysis, and genome informatics. Applicants must have a Ph.D. or M.D. degree or equivalent, with less than 5 years of experience. Applicants need not necessarily be U.S. citizens. Stipends start at or above $25,000 per year depending on experience. Applications will be accepted if postmarked by 5/31/96.

Candidates should send a curriculum vitae and the names, addresses, and telephone numbers of three references directly to:
Chair, Search Committee
David Landsman, Ph.D.
National Institutes of Health
NLM/NCBI
Building 38A, Room 8N807
Bethesda, MD 20894
U.S.A.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, sexual orientation, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

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Molecular Approaches to the Control of Infectious Diseases
September 9 - 13, 1996

Organized by:
Fred Brown, USDA, Plum Island Animal Disease Center
Dennis Burton, Scripps Research Institute
Peter Doherty, St. Jude Children's Research Hospital
John Mekalanos, Harvard University
Erling Norby, Karolinska Institute, Sweden

Topics & Invited Speakers include:
Bacterial Vaccines; John Tainer, Martin Blaser
Parasite Vaccines; Lou Miller
Viral Vaccines; Erling Norby
HIV-SIV; Joseph Sodroski
DNA Immunization; Margaret Liu, Jerald Sadoff
Immunogenic Structures; Marc Van Rgemontel, John Skehel
Interaction of Antigens with the Immune System; Don Wiley, Luc Teyton
Cytokines, Pathogenesis and Vaccines; Alan Sher, Ronald Germain
Emerging Pathogens; C. J. Peters

CSHL particularly encourages junior scientists to present their data at the meeting. All oral and poster presentations will be selected on the basis of scientific merit.

Abstract Deadline: June 26, 1996

Other CSHL 1996 Fall Meetings
Meeting Dates / Abstracts Due
Cancer Genetics & Tumor Suppressor Genes
August 14 - 18 / May 29
Molecular Genetics of Bacteria & Phages
August 20 - 25 / June 5
Mouse Molecular Genetics
August 28 - September 1 / June 12
Translational Control
September 4 - 8 / June 19
Molecular Biology of Hepatitis B Viruses
September 18 - 22 / July 3
Gene Therapy
September 25 - 29 / July 10
Learning & Memory
October 2 - 6 / July 17

Cold Spring Harbor Laboratory
Meetings & Courses Office
1 Bungtown Rd, Cold Spring Harbor, NY 11724-2213
Email: meetings@cslh.org
Fax: 516-367-8845 Phone: 516-367-8346
http://www.cshl.org/meetings/

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IDEXX From immunosassays and DNA probes to molecular biology and instrumentation, IDEXX is utilizing state-of-the-science technologies to aggressively and successfully target niche markets worldwide. Our powerful new generation of detection products is now used in applications ranging from animal health to food and environmental testing. With a phenomenal growth pattern behind us and a sound growth strategy ahead, we are seeking the following professional:

Senior Technology and Business Development Analyst

Working closely with senior management as well as our scientific and marketing staff you will establish and review projects and priorities. The successful candidate will be responsible for leading the process of identification, analysis and triage of technology opportunities, culminating in the licensing of new technology platforms. In addition to technical evaluation, the process includes assessing potential markets, market research and making new product recommendations. You may be responsible for joint ventures and collaborative agreements as well as licensing opportunities. As a primary liaison with academic and research institutions, the incumbent will develop relationships with leading researchers in key fields.

The successful candidate will possess a broad educational background, culminating in a Ph.D. in a life or physical science. An MBA degree is desirable. 1-5 years' experience in a biotechnology or high-tech area, with experience in technology evaluation and licensing, market research, competitive analysis, contract negotiation, and strategic product planning. You must have excellent analytical skills with the ability to evaluate a breadth of technologies in numerous fields. You will thrive in a fast-paced, short-sleved, entrepreneurial, proactive, team-oriented environment.

Salary commensurate with experience. Please send resume and a letter of application to: Ms. Donna Woodard, Recruiting Coordinator, IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, ME, 04092. An equal opportunity employer.
Nova Southeastern University
Assistant/Associate Professor of Anatomy

The Anatomy Department of the College of Medical Sciences at Nova Southeastern University, Health Professions Division, is seeking an individual to teach human anatomy to students in the medical, optometry, and allied health programs.

Nova Southeastern University is the largest independent university in Florida with an enrollment exceeding 14,000 students. NSU provides educational programs in the health professions, business, law and other fields. The Health Professions Division will soon move to new, state-of-the-art facilities on the main campus of Nova Southeastern University.

Qualifications: An earned doctorate in Anatomy or equivalent degree, plus medical school level teaching experience in human anatomy.

Salary Range: $40,000-$45,000.

Position to start July 1, 1996.

Please send letter of interest, resume, copy of transcript(s) and 3 letters of reference to:
Nova Southeastern University
College of Medical Sciences
Anatomy Department
1750 N.E. 167th Street
N. Miami Beach, FL 33162-3017

University of California, Davis
School of Medicine

The Basic Science Departments of the School of Medicine invite applications for four full-time, tenure-track faculty positions at the Assistant Professor level. Applicants should have the Ph.D. and/or M.D. degree, and at least two years of postdoctoral experience. The most important criteria are: 1) a record of excellence in research which demonstrates strong potential for building an independent, competitive research program, and 2) communication skills demonstrating the potential to achieve excellence in the teaching of medical and graduate students. Research areas of interest include cell signaling, molecular recognition, structural biology, integrative biology, pathogenetic mechanisms, and molecular pharmacology. Applicants should submit: 1) a curriculum vitae (including teaching experience); 2) a synopsis of past, present, and future research goals; 3) up to three representative reprints; and 4) the names/addresses of four references:
Chair, Basic Sciences Search Committee,
c/o Don Martensson, Office of the Dean,
School of Medicine, East Health Sciences Drive,
University of California, Davis, CA 95616.

Applications will be accepted until December 31, 1996. For additional information see our website: http://medsponsoredprograms/pages/SOMOR/recruit.html. The University of California is an Affirmative Action/Equal Opportunity Employer.

Chemistry Faculty Position
Forensic Science

Scientists with a background in forensic science are urged to apply for an assistant/associate professor opening in the Chemistry Department's Forensic Science program. A doctoral degree in chemistry or biochemistry is preferred; a doctoral degree in molecular biology or associated field will be considered. It is preferred that the faculty member have two years of crime laboratory experience as a forensic serologist; however, an individual with experience in DNA analysis, site directed mutagenesis, PCR including but not limited to thermal cycler sequencing, RFLP, and RAPD will be considered. The ideal candidate is expected to direct higher level research experience to the field of forensic science and to establish a well-funded research program dealing with the problems encountered by crime laboratory scientists in analyzing physical evidence collected from crime scenes. The faculty member will be responsible for developing the newly initiated Forensic Serology track in the Forensic Science curriculum. This will include recruitment and counseling of students, design and implementation of new courses in forensic serology, and working with state and local crime laboratories to develop a mutually acceptable training program for students and new employees. The faculty member may have some teaching duties with the Chemistry Department.

The University of Central Florida is a rapidly growing university with over 25,000 students in the expanding dynamic community of Orlando, Florida. Degree programs are offered at all levels. Applications and all supporting documents must be postmarked by May 16, 1996. Candidates should have letters of recommendation sent to:
Dr. Glenn Cunningham, Chair, Department of Chemistry, Orlando, Florida 32816-2366. Review of candidates' applications will begin May 17, and interviews are expected to begin in May.

The University of Central Florida is an equal opportunity, affirmative action employer and women and minority candidates are encouraged to apply.

EMBL MEETING ON TRANSCRIPTION
August 24-28, 1996
EMBL Heidelberg, Germany

Topics: Basal and Activated Transcription. Chromatin, Structure, Repression, Cell Cycle

Organizers: René Bernards (Amsterdam), Michael Meisterernst (Munich), Frances Stewart (Heidelberg), Henrik Stuvennenberg (Heidelberg).

Invited speakers: Patrick Baserga (San Francisco, Miguel Beato (Marburg), Peter Becker (Heidelberg), Stephen Burke (New York), Pierre Chambon (Illiers), Victor Corces (Baltimore), Blasferie Emerson (La Jolla), Ron Evans (La Jolla), Susan Goros (Los Angeles), Frank Grosveld (Rotterdam), Ingrid Grummt (Heidelberg), Nouria Hernandez (CSF), Alan Israel (Paris), Helmut Jackle (Utrecht), Steve Jackson (Cambridge), Roger Kornberg (Stanford), Tony Kouzarides (Cambridge), David Lavery (Boston), Bernard Mach (Geneva), Kim Nasmyth (Aarhus), Ronafta Paro (Heidelberg), Vincent Pirritano (Genova), Craig Peterson (Wisconsin), Danny Reinberg (Piscataway), Tim Richmond (Zurich), Robert Roeder (New York), Urs Schiltler (Genova), Phil Sharp (Cambridge), Paul Sigler (Nara-Haven), Kevin Stuhl (Boston), Mark Timmers (Utrecht), Richard Treisman (London), Carl W. Bucks (Bethesda), Alan Wolff (Bethesda), Mosthe Yaniv (Paris), Rick Young (Boston).

The deadline for applications is 15th June, 1996.

All abstracts accepted will be included in a booklet.

Registration fee: DM 800,- (includes accommodation, local transport and meals). The registration form must NOT be sent before acceptance to the conference. EU-eligible applicants 35 years or under, in particular PhD students, can expect a partial refund.

Application and abstract forms can be obtained from:
Maria Ittensohn, EMBL, Postfach 102990, 69012 Heidelberg, Germany.
Tel: +49-6221-387430; Fax: +49-6221-387575
e-mail: ittensohn@embl-heidelberg.de

Electronic registration: http://www.embl-heidelberg.de/cgi/register-transcription
This meeting will be supported by CIBA-GEIGY Ltd., Basel, Switzerland

GLYCOCONJUGATES:
CELLULAR MESSENGERS
AND MEDIATORS

Hunter College of The City University of New York
Center for Study of Gene Structure & Function sponsored by the National Institutes of Health
Research Centers in Minority Institutions Program

MEETINGS

MAY 3, 1996
9:00 a.m. to 5:30 p.m.
Hunter College, West Building, Room 714
66th Street at Lexington Avenue, New York City

TIMOTHY A. SPRINGER, PH.D.
JAMES C. PAULSON, PH.D.
TEN FEIzi, M.D.
SAMUEL J. DANISHEFSKY, PH.D.
PETER N. LIPKE, PH.D.
ELAINE TUOMANEN, PH.D.
PAMELA STANLEY, PH.D.

POSTER SESSION: THE NEW YORK WORLD OF GLYCOCONJUGATES

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NO REGISTRATION.

Center for Study of Gene Structure & Function:
Phone: (212) 772-5352/Fax: (212) 772-4109
E-mail: waxman@genecrunt.hunter.cuny.edu
Check Out Our Symposium Web Page:
http://sochouse.hunter.cuny.edu/class/csgsy.html
The European Molecular Biology Laboratory (EMBL), an international research organization with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy) has the following vacancy in Heidelberg for a:

**COORDINATOR OF THE DEVELOPMENTAL BIOLOGY PROGRAMME**

The EMBL has started a new Developmental Biology Programme in Heidelberg. The Programme is focused on pattern formation and morphogenesis in vertebrates and invertebrates using approaches that encompass genetics, cell biology, biochemistry and molecular biology. EMBL is well suited to research in Developmental Biology, because of its multi-disciplinary scope, its strength in related areas, its highly collaborative environment and its tradition. The new Programme will closely interact with and occupy new space adjacent to the Cell Regulation Programme which emphasizes signal transduction, cell cycle and differentiation. Strong links are also expected with the Cell Biology and Gene Expression Programmes. Additional interactions are possible with Cell Biophysics, Structural Biology and Biochemical Instrumentation, as well as with the new Programme of Mouse Genetics at Monterotondo.

The Developmental Biology Programme was started this year with three research groups working on *Drosophila* development (S. Cohen, A. Ephrussi, M. Mlodzik, formerly belonging to the Differentiation/Cell Regulation Programme. Three additional groups are to be established from early 1997 to mid-1998.

Applications are invited for the position of Coordinator of the new Programme. We are seeking active scientists with outstanding accomplishments who share our vision and collaborative outlook, and who are also skilled in personal interactions and resource management.

EMBL is an inclusive, equal opportunity organization.

**Deadline for applications is 31 May 1996.**

For further information please contact the Director General and Chair of the Search Committee, Professor Fotis C. Kafatos, e-mail: kafatos@embl-heidelberg.de or FAX: +49-6221-387211.

To apply please send your CV and statement of research plans, quoting ref. no. 96/17 to:

**Head of Human Resources, EMBL, Postfach 10 2209, D-69012 Heidelberg, Germany.**

Fax: +49 6221 387555
Senior and Postdoctoral Research Positions

General: The International Livestock Research Institute (ILRI), founded in 1994, incorporates the resources of the former International Laboratory for Research on Animal Diseases (ILRAD, Kenya) and the International Livestock Centre for Africa (ILCA, Ethiopia). ILRI, a non-profit-making research institute, is sponsored by the Consultative Group on International Agricultural Research (CGIAR). The global mandate of ILRI is to undertake research to enhance the role of livestock in sustainable agricultural production systems in Africa, Asia and the Latin American/Caribbean region. Six programme areas address Conservation of Biodiversity, Production Systems Research, Utilization of Tropical Feed Resources, Animal Health Improvement, Livestock Policy Analysis and Strengthening National Agricultural Research Systems. ILRI employs approximately 80 internationally recruited scientists, 20 postdoctoral associates and 800 programme support staff based in the institute’s two campuses in Nairobi, Kenya and Addis Ababa, Ethiopia and at field sites in Niger, Nigeria, Burkina Faso and Zimbabwe. In 1996 scientists will be posted in Asia and Latin America.

Rumen microbiologist/ecologist: Vacancy No. INT/008/96, Addis Ababa, Ethiopia. The project involves strategies for modifying antinutritional factors in forage trees and shrubs using a combination of classical anaerobic microbiology and modern molecular biotechnology and ecology techniques. We require a highly motivated, innovative scientist to join a multi-disciplinary team of scientists (including an animal nutritionist, a plant geneticist and a phytochemist) to perform research on detoxifying phytotoxins in ruminants by manipulating the rumen microbial ecosystem.

Phytochemist: Vacancy No. INT/009/96, Addis Ababa, Ethiopia. The project involves characterizing and quantifying antinutritional factors in forage trees and shrubs using modern analytical techniques and investigating the mechanisms responsible for microbial transformation of these factors by rumen microbes. We require a highly motivated, innovative scientist to join a multi-disciplinary team of scientists (including an animal nutritionist, a plant geneticist and a rumen microbiologist/ecologist) to perform research on the chemical nature and factors influencing phytotoxins in indigenous plants and to examine their bioconversion in the rumen microbial ecosystem.

Qualifications: For both the above positions a Ph.D. or equivalent with applicable specialization and a proven publication record in the field is required. Candidates are expected to have a minimum of 10 years of relevant research experience. Experience in ruminant nutrition/physiology and/or nutritional factors is desirable. Candidates must be experienced in managing a microbiological or analytical laboratory and have a proven ability to design, implement, analyze and evaluate experimental data. They must have good communication and interpersonal skills, ability to perform in a multi-disciplinary and multi-cultural research environment and be fluent in spoken and written English. Possession of other language skills and working experience in developing countries will be an advantage.

Postdoctoral cellular immunologist: Vacancy No. INT/010/96, Nairobi, Kenya. The project uses a multi-disciplinary approach to develop improved vaccines against parasitic diseases that contain livestock productivity in developing countries. The successful candidate will focus on evaluating the vaccine potential of antigens of *Theileria parva* that access bovine class 1 MHC antigen processing pathways. Studies will be based on recombinant viruses and transfection techniques in association with a variety of cellular immune assays. Applicants should hold a Ph.D. degree in cellular immunology, preferably as applied to ruminants. Experience in virology and the use of mammalian expression systems will be an advantage.

Conditions: The initial contract for the two senior positions will be for three years and may be renewed. The postdoctoral position will be for a three year fixed term. Salaries are paid in US dollars. ILRI provides excellent benefits including employer-paid medical, life and disability insurance and retirement benefits. Relocation, housing, annual leave travel and education allowances are also provided. On-site accommodation in fully furnished houses is subject to availability.

Applications: Applicants should send a cover letter, resume, and the names and addresses (including telephone, fax and e-mail) of three referees who are knowledgeable about the candidate’s professional qualifications to ILRI, P.O. Box 30709, Nairobi, Kenya; telephone: 254 2 630743; fax: 254 2 631499; e-mail: r.eley@cgenet.com. The name and reference number of the position for which the application is made should be clearly marked on the envelopes of mailed, or on the head of faxed or e-mail, applications. Review of applications will begin 3 May, 1996.

ILRI is an Equal Opportunity Employer

Ludwig-Maximilian-University Munich
Chair of Physiology

The Faculty of Medicine of the Ludwig-Maximilian-University, Munich, invites applications for the Chair of Vegetative Physiology (C4, successor to Professor E. Gerlach).

The successful applicant will be a university graduate with senior qualifications equivalent to the German "Habilitation" and have proven expertise in research and teaching.

The University of Munich is endeavouring to increase the proportion of women on its scientific staff.

Applications with the usual documentation (academic qualifications, names of referees, curriculam vitae and list of publications subdivided into original articles, reviews, book articles and abstracts) should reach the Dean’s Office, Faculty of Medicine, Bavariaring 19, D-80336 Munich, no later than 26.04.1996.

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SCIENCE COVERS THE WORLD
**ETH Zürich**

**Team Leader Position**

**Organic Thin Films for Nonlinear Optics**

Our team in the nonlinear optics laboratory is growing thin films by Organic Molecular Beam Epitaxy (OMBE) in UHV surroundings and participates in a four-year Swiss priority program ("Growth and Engineering of Nonlinear Optical and Electrooptic Thin Films by Molecular Layer Deposition"). The candidate should be interested in leading a small team working in an interdisciplinary field at the border between physics, chemistry and materials science. The candidate and his or her team will conduct research in the field of preparation, characterization and investigation of organic nonlinear optical thin films. Excellent facilities (two MBE Deposition Chambers, all necessary analytical methods, clean rooms, nonlinear optics and laser laboratory) are available for the execution of the program.

The candidate is expected to have a Ph.D. in physics in the field of molecular beam epitaxy. Experience in organic molecular beam epitaxy or organic self-assembly would be preferred. A readiness to cooperate with chemists and technicians within the MBE group is required.

Interested persons are asked to send a resume, transcripts and two references.

Apply to:

**Prof. Dr. P. Günter**

**Nonlinear Optics Laboratory**

**Institute of Quantum Electronics**

**ETH Hönggerberg HPF E7**

**CH-8093 Zürich**

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**Kuwait University**

**Faculty of Science**

The Faculty of Science at Kuwait University seeks a qualified candidate in Plant Taxonomy (flowering plants) with a strong commitment to high quality teaching and research, for appointment to the position of Professor or Associate Professor.

**Required qualifications:**

- Ph.D. or its equivalent in the required area.
- Research experience and publications
- University teaching experience
- Excellent knowledge of English
- Excellent knowledge of herbarium technologies and administration

The post will offer opportunity to manage the Herbarium of Kuwait University (KTUH). A new building for the Herbarium is available with excellent set of classified records of flora of the Arabian Peninsula.

**Kuwait University offers:**

- TAX FREE Salary
- Approximate salary ranges: Professor - KD 1070-1230, and Associate Professor - KD 875-1035, depending on years of experience and number of dependents (spouse and children under 18). (1 KD is equivalent to approx. 3.5 US$).
- Fringe benefits which include: furnished air-conditioned accommodation, annual air tickets, free National Health Medical Care, paid mid-term holidays and summer vacations, and gratuity.
- New appointees can apply for financial support for research projects.
- Excellent academic environment.
- Contracts effective from September, 1996, for a two-year initial period.

Application should be accompanied by:

- A complete CV including:
  - Mailing address including phone, fax and e-mail; academic qualifications; teaching, research and professional/work experience; list of publications in professional journals.
  - Names and addresses of three persons well-acquainted with the academic and professional work of the applicant.
  - An English translation of all documents in other languages.
  - Passport photocopies of self and accompanying dependents, including pages containing photograph, personal data, other persons on the same passport, place of issue, dates of issue and expiry.
  - For the appointment to the offered positions, a very good performance in the B.Sc. is required (minimum GPA 3 points out of 4). Please send copies of all transcripts.

Applications are available from the Kuwait University Office, 3500 International Drive N.W., Washington, D.C. 20008, Tel. (202) 363-8055.

Applications should be sent by express mail/courier service to:

**The Dean, Faculty Science**

**Kuwait University**

**P.O. Box 5969**

**Safat 13060**

**Kuwait**

For inquiries, use:

**Fax**: (965) 4847054 or (865) 4836127

**E-mail**: azza@kuco1.kuniv.edu.kw

Closing date for receipt of applications: 30 April, 1996

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**UNIVERSITY OF CANTERBURY**

**NEW ZEALAND**

**LECTURER IN ZOOLOGY**

(AQUATIC ECOLOGY)

Applications are invited for the above tenured position in the Department of Zoology. The minimum qualification on appointment is the Ph.D. degree or equivalent, postdoctoral experience is preferable. The appointee is expected to contribute to the teaching of marine invertebrate zoology, aquatic ecology and general zoology at undergraduate level, and to teach a postgraduate course or courses in their area of specialisation. He or she will be required to develop an active programme of research and to supervise research students. Preference may be given to candidates with strengths in biometrics and experimental ecology, and interests in the broader fields of environmental science or conservation biology.

Academic enquiries may be directed to the head of Department, Professor M. J. Winterbourn, Telephone: 64-3-364-2026, Fax: 64-3-364-2024, or Email: <job@zool.canterbury.ac.nz>.

The University's World Wide Web address is <http://www.vrgy.canterbury.ac.nz/home.html>.

The salary for Lecturers is on a scale from NZ$42,000 to NZ$52,000 per annum.

Applications close on 30 June, 1996.

Further particulars and Conditions of Appointment may be obtained from the undersigned. Applications, quoting Position No. ZO95, must be addressed to:

**The Registrar, Atten: Staffing, University of Canterbury, Private Bag 4800, Christchurch, New Zealand.**

The University has a policy of employing people from under-represented groups.
Oxidative Stress and Redox Regulation:
Cellular Signaling, Aids, Cancer and Other Diseases.
Co-chairs: Luc MONTAGNIER—Catherine PASQUIER—Thomas TURSZ
May 21–24, 1996
Institut Pasteur, Paris, France
Organizers: Luc MONTAGNIER, René OLIVIER, Lester PACKER,
Catherine PASQUIER, Joelle WIELS, Junji YODOO
Oxidation/reduction of Redox status plays a crucial role both in the regulation of signal transduction and defense mechanisms against oxidative stress. Recently there has been an unprecedented expansion of our knowledge on the part which oxidative stress and redox regulation play in signal transduction, gene regulation, cell growth/differentiation, and cell death. The new knowledge in these areas promises to open up new paradigm of how cellular redox status may exert control over various diseases. In a forthcoming international meeting for "Oxidative Stress and Regulation Redox: Cellular Signaling, Aids, Cancer and Other Diseases" scheduled for May 21–24, 1996 (Monday through Friday) at the Institut Pasteur in Paris, the following topics will be explored:

- Basic biology of redox regulation and oxidative stress
- Role of oxidative stress and antioxidants on cellular signaling and gene regulation
- Activation of protein-kines.
- Activation of nuclear factors.
- Regulation of cell growth, differentiation and death in different cellular models.
- Relevance of oxidative stress and antioxidant cell status in diseases:
  - AIDS.
  - Cancer.
  - Other diseases.

Registration fees: 2200 FF (500$).

For further information, please contact
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31961 TOULOUSE CEDEX—FRANCE
Tel: 33 61 21 28 48
Fax: 33 61 21 28 54 /57
Email: europe@daksup.francenci.fr

National University of Singapore
Postdoctoral Position
The Department of Pharmacy seeks applications for Research Fellow positions in (1) Organic Chemistry and (2) Pharmacology. The successful candidates will work as part of a team, investigating novel neuroactive compounds. Organic chemists will be involved in chemical synthesis. Preference will be given to those with experience in natural product synthesis, physicochemical determinations or working knowledge in molecular modelling. The pharmacologist will be involved in pharmacological testing. Experience in receptor binding and animal experiments will be an advantage.

The appointments will normally be for a period of one year in the first instance with the possibility of extension up to a maximum of three years. The salary ranges from S$47,670 to S$90,740 per annum; the amount offered will depend on the qualifications and experience of the candidate (US$1 = S$1.4). Leave and medical benefits will be provided.

To apply, send application with detailed curriculum vitae and names of three referees to:
Assoc. Professor T. L. Ngiam
Department of Pharmacy
Faculty of Science
NATIONAL UNIVERSITY OF SINGAPORE
10 Kent Ridge Crescent, Singapore 119260
Fax: (65) 779-1554
Internet: phhead@leonis.nus.sg.

Closing Date: 30 April 1996

Dr. Reddy's Research Foundation (DRF), promoted by the pioneering pharmaceutical companies of Dr. Reddy's Group, Hyderabad, India, has been established with the aim of building a solid foundation in pharmaceutical research. For this purpose we have commissioned a state-of-the-art research facility at Miyapur, Hyderabad, India. We are seeking the following personnel for Biotechnology R&D and Chemical R&D. The successful candidates will have distinguished reputation and established records of independent research experience.

MICROBIAL GENETICIST - Ph.D. in Microbiology/Molecular Biology with 3 years of Postdoctoral experience in the field of recombinant DNA research. You will be responsible for introducing state-of-the-art methods in developing and screening of strains for higher production of secondary metabolites. Work experience in the areas of microbial techniques, microbial physiology, biochemistry, classical strain development by mutation, and gene cloning is essential.

FERMENTATION TECHNOLOGIST - The individual would be a specialist in microbial fermentation. Experience in optimization of media and environmental conditions to enhance the production of microbial metabolites and scale-up of fermentation process from shake-flask to plant scale is expected. Successful candidate will have a Ph.D. in Microbiology/Biochemical Engineering with 3 years of Postdoctoral experience or M.Sc. with 10 years of industrial experience in process development and trouble shooting of fermentation processes.

SCIENTISTS (MEDICINAL CHEMISTRY) - Candidates should have exceptional academic training and a Ph.D. degree in Medicinal Chemistry. Scientists are expected to play a key role in the design, synthesis and follow up of small molecule biological affectors as members of a multi-disciplinary project team pursuing mechanism based approach to novel pharmaceutical agents. DRF maintains a strong interest in important therapeutic areas including antibacterials, anticancer, cardiovascular, metabolic disorders and other exploratory areas of medicinal chemistry.

SCIENTISTS (ORGANIC CHEMISTRY) - Candidate with Ph.D. in Organic Chemistry to develop and execute methods for the simultaneous synthesis of tens to hundreds of new chemical entities for the optimization of drug lead in different therapeutic areas. The candidates should have excellent knowledge of synthetic methodology and organic reaction mechanisms and experience in the synthesis of heterocyclic small molecules. The ability to interact in a multi-disciplinary project team environment is essential.

Salaries and benefits will be tailored to attract the best talent.

NRI scientists wishing to return to India, may please respond with complete details of CV, in strict confidence, to:
The President
Dr. Reddy's Research Foundation
7-1-27, Ameerpet, Hyderabad 500 016, INDIA
Fax: +91 40-285438/291955
E-mail: res.drf@axcess.net.in
POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS
Hemostasis and Thrombosis

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS in Hemostasis and Thrombosis are available at the University of Vermont. M.D. and Ph.D. candidates will be considered for a minimum of two years of support. The training programs include clinical epidemiology, enzymology, protein chemistry, molecular biology, cell biology, and vascular biology of the coagulation and thrombotic systems. The Vermont Thrombosis Center provides the foundation for cooperative interaction among the research laboratories of the seven preceptors in the program: Dr. Edwin Bovill and Dr. Russell Tracy, Department of Pathology; Dr. George Long, Dr. Kenneth Mann, Dr. Larry Sobel, and Dr. Robert Woodworth, Department of Biochemistry; and Dr. Burton Sobel, Department of Medicine. The primary training enterprise will occur within the research laboratory environment but this may be supplemented with the formal educational programs available in the University of Vermont College of Medicine. Send curriculum vitae, selected papers, and names of three references to: Dr. Kenneth G. Mann, Ph.D., Professor and Chairman, Department of Biochemistry, University of Vermont College of Medicine, C401 Given Building, Burlington, VT 05405-0068.

Immediate opening for an energetic and technically accomplished POSTDOCTORAL RESEARCH ASSOCIATE in protein chemistry and molecular biology to work on the characterization of a newly identified binding site for blood coagulation factor IX. A knowledge of cell biology and endothelial cells would be a plus but is not necessary. Send curriculum vitae, a short summary of research interests, and addresses of three references to: Darrel W. Stafford, Ph.D., Biology Department, University of North Carolina–Chapel Hill, Chapel Hill, NC 27599-3280.

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